



**Linda S. Adams**  
*Secretary for  
Environmental Protection*

# State Water Resources Control Board

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## Office of Research, Planning, and Performance

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**Arnold Schwarzenegger**  
*Governor*

## NOTICE OF PUBLIC WORKSHOP CLIMATE CHANGE WATER RECYCLING MEASURE IMPLEMENTATION

Wednesday, March 4, 2009 – 9:30 a.m.  
Joe Serna, Jr. Cal/EPA Headquarters Building  
Coastal Hearing Room – Second Floor  
1001 “I” Street, Sacramento, CA 95814

**NOTICE IS HEREBY GIVEN** that the State Water Resources Control Board (State Water Board) will conduct a workshop to discuss strategies for implementation of measure “W-2 Water Recycling” from the AB 32 Climate Change Scoping Plan adopted by the Air Resources Board in December 2008. This workshop is jointly sponsored by the Water-Energy Team of the Cal/EPA Climate Action Team (WETCAT), the State Water Board, and the California Public Utilities Commission as an opportunity to solicit suggestions from stakeholders and the general public regarding implementation of the water recycling measure. The morning workshop session will include an overview of AB 32 with emphasis on measure W-2 Water Recycling, presentations of water recycling efforts and facilities by selected local agencies, and a session on water recycling financing. The afternoon workshop session will be dedicated to small group discussions of implementation issues in response to specific questions. A quorum of the Board may be present. No actions will be taken during the workshop.

### BACKGROUND

Climate change is impacting water availability and use in California. Increased levels of greenhouse gases (GHG) in the atmosphere are a significant contributor to global warming. The State of California has assumed a leadership role in efforts to slow global warming. The Governor signed [Executive Order S-3-05](#) in June 2005 establishing GHG reduction targets of 25% (to 1990 levels) by 2020, and 80% below 1990 levels by 2050. In 2006, the State enacted the California Global Warming Act of 2006 (AB 32) which, among other charges, established the Climate Action Team (CAT) to coordinate the efforts set forth under Executive Order S-3-05. The Proposed Climate Change Scoping Plan, adopted by the Air Resources Board (ARB) on December 11, 2008, contains GHG reduction measures recommended by the CAT. The Scoping Plan is available online at:

<http://www.arb.ca.gov/cc/scopingplan/document/scopingplandocument.htm>

The Scoping Plan includes six GHG reduction measures for the water-energy sector. The measures are identified in Table 22 (page 66) of the Scoping Plan as follows:

**Water Recommendation  
(MMTCO<sub>2</sub>E in 2020)\***

<b>Measure No.</b>	<b>Measure Description</b>	<b>Reduction</b>
W-1	Water Use Efficiency	1.4
W-2	Water Recycling	0.3
W-3	Water System Energy Efficiency	2.0
W-4	Reuse Urban Runoff	0.2
W-5	Increase Renewable Energy Productions	0.9
W-6	Public Goods Charge	TBD

\* million metric tons of CO<sub>2</sub> equivalent

The Scoping Plan presents a general description of each GHG reduction strategy and the predicted MMTCO<sub>2</sub>E reduction goal of each strategy. The Scoping Plan does not address how strategies will be implemented, monitored, or determined to be complete.

The purpose of this workshop is to solicit suggestions from stakeholders and the public regarding implementation of Measure W-2 Water Recycling. Measure W-2 is presented on page C-133 of the *Climate Change Proposed Scoping Plan Appendices, Volume I: Supporting Documents and Measure Detail*, as follows:

**W-2: Water Recycling**

GHG emission reductions can be achieved when one water supply source is used as an alternative to another, more energy intensive source. Water recycling can reduce energy use and thereby reduce GHG emissions by increasing local water supplies rather than importing water from other regions or reliance on other energy intensive treatment processes. This measure proposes a requirement for development and implementation of water recycling plans by wastewater management agencies working with water supply agencies. This requirement would apply where the recycling of treated effluent is not maximized at wastewater treatment plants located in areas of imported water supply and where water recycling could require less energy than current water sources. Implementation of water recycling plans would be prioritized for those plants that discharge to water bodies from which the wastewater cannot otherwise be easily recovered, such as the ocean and brackish water bodies.

Modern municipal wastewater treatment facilities are capable of producing high quality recycled water that is suitable for a wide range of beneficial uses. The DWR publication *Water Recycling 2030: Recommendations of California's Recycled Water Task Force* reports that approximately ten percent of municipal wastewater in California is being recycled, but as much as 23 percent of the municipal wastewater flow could be recycled. This measure targets the 23 percent recycling goal by 2030. Finding suitable markets and funding treatment and distribution system costs are challenges to increasing the use of recycled water. The recommended public goods charge could be used to address this market barrier and provide funding for treatment and distribution systems.

Substantial energy savings could be realized if recycled wastewater was used to replace potable water in appropriate applications such as irrigation. The amount of energy required to import or recycle water varies widely throughout the State. The CEC has reported that water supply and conveyance of water from northern to southern California consumes an estimated 3.2 MWh per

acre foot (AF). In contrast, the estimated energy needed to recycle wastewater is approximately 0.7 MWh per AF, but this value will vary with the level of treatment required. As a result, the potential energy savings that could be realized through water recycling is estimated as 2.5 MWh per AF in southern California communities that import water.

### **AGENDA AND RSVP**

The agenda for this public workshop is available on the State Water Board's website at: [http://www.waterboards.ca.gov/board\\_info/calendar/index.shtml#march09](http://www.waterboards.ca.gov/board_info/calendar/index.shtml#march09)

An RSVP is requested to facilitate planning for the small group discussions; specifically, to estimate attendance and to receive suggested questions regarding implementation of the water recycling measure (such as contents of recycling plans, regulatory mechanisms, or technical feasibility). Please RSVP and/or provide suggested questions by Monday, February 23, using the following web link:

[http://www.surveymonkey.com/s.aspx?sm=D3RcvA4i3cWYOVv9LCwIEA\\_3d\\_3d](http://www.surveymonkey.com/s.aspx?sm=D3RcvA4i3cWYOVv9LCwIEA_3d_3d)

Should you have problems with the online RSVP or have questions regarding this workshop, please contact Bob Languell, State Water Board, at (916) 341-5588.

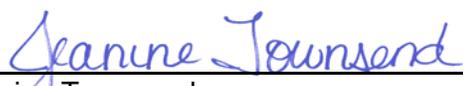
### **PARKING, ACCESSIBILITY, AND SECURITY**

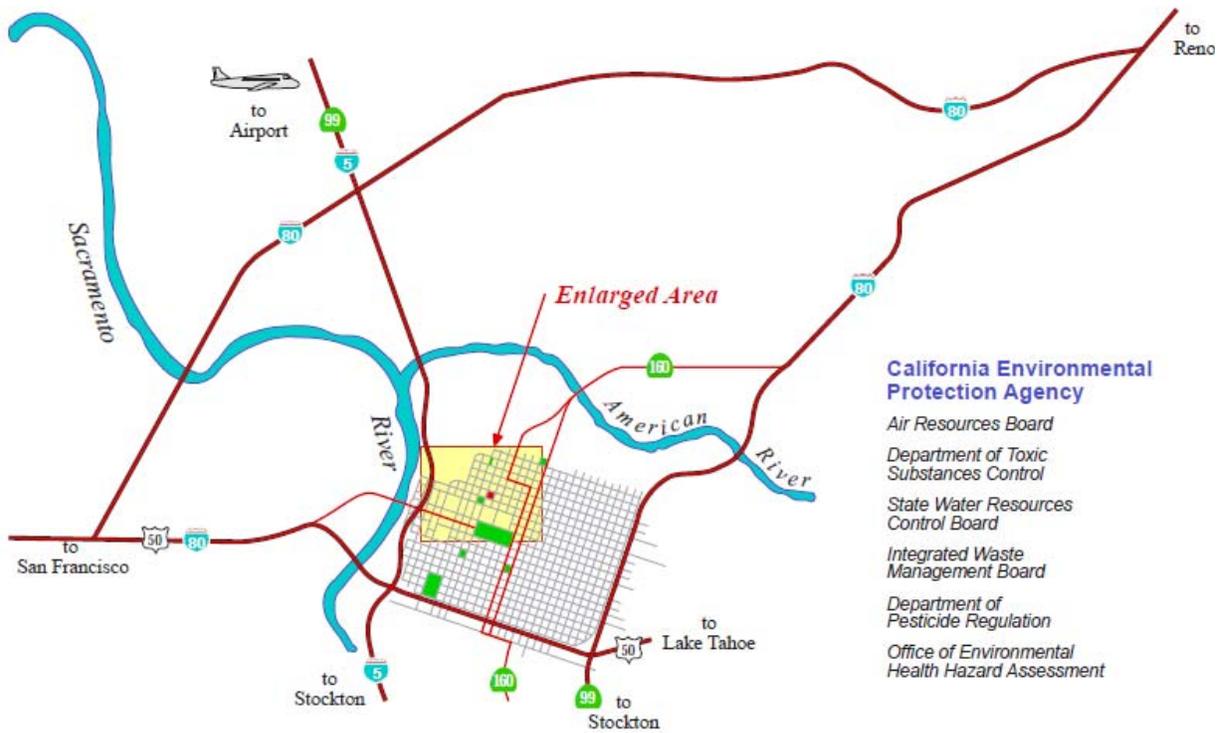
The enclosed maps show the location of the Joe Serna Jr. Cal/EPA Headquarters Building and public parking sites in Sacramento. They are also available on our web site at: <http://www.calepa.ca.gov/epabldg/location.htm>.

Due to enhanced security precautions at the Cal/EPA Headquarters Building, all visitors are required to register and obtain a visitor's pass prior to attending any meeting. Sign-in tables are set up near the public entrance to accommodate large meetings or events. For smaller meetings, visitors must go to the Visitor and Environmental Services Center, located just inside and to the left of the building's public entrance. Depending on their destination and the building's security level, visitors may be asked to show valid picture identification. Valid picture identification can take the form of a current driver's license, military identification card, or state or federal identification card. Depending on the size and number of meetings scheduled on any given day, the security check-in could take from three to fifteen minutes. Please allow adequate time to sign in before being directed to your meeting.

The hearing rooms are accessible to persons with disabilities. Individuals who require special accommodations for this workshop are requested to contact Bob Languell at (916) 341-5588 or email [blanguell@waterboards.ca.gov](mailto:blanguell@waterboards.ca.gov) at least five working days prior to the workshop date. Persons with hearing or speech impairments can contact us by using the California Relay Service Telecommunications Device for the Deaf (TDD). TDD is reachable only from phones equipped with a TDD Device. HEARING IMPAIRED RELAY SERVICE: TDD to voice 1-800-735-2929; voice to TDD 1-800-735-2922.

February 10, 2009  
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Date

  
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Jeanine Townsend  
Clerk to the Board



- Lot 1 (7th & G St.)**  
\$0.75 ea. 1/2 hr.
- Lot 2 (7th & G St.)**  
\$0.75 ea. 1/2 hr.
- Lot A (7th & Capitol)**  
\$0.75 ea. 1/2 hr. for first 2 hrs.  
\$1.50 ea. additional 1/2 hr.  
\$8.00 maximum charge
- Lot C (14th & H St.)**  
\$5.00 flat rate
- Lot G (3rd & L)**  
\$0.75 ea. 1/2 hr. for first 2 hrs.  
\$1.25 ea. additional 1/2 hr.  
\$13.00 daily maximum charge
- Lot H (10th & L)**  
\$1.25 each 1/2 hr.  
\$15.00 daily maximum charge
- Lot I (10th & I, 11th & D)**  
\$1.00 each 1/2 hr.  
\$12.00 daily maximum charge
- Lot K (6th & J/L, 7th & K)**  
\$0.75 ea. 1/2 hr. for first 2 hrs.  
\$1.25 ea. additional 1/2 hr.  
\$13.00 daily maximum charge
- Lot P (2nd & D)**  
\$0.75 ea. 1/2 hr. for first 3 hrs.  
\$1.00 each additional 1/2 hr.  
\$12.00 daily maximum charge
- Lot U (5th & J)**  
\$0.50 ea. 1/2 hr. for first 2 hrs.  
\$1.00 ea. additional 1/2 hr.  
\$12.00 maximum charge
- Lot W (2nd & I St.)**  
\$5.00 flat rate